

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (Currently Amended) A method of providing a substrate comprising a fiber based layer with a coating layer of a polymeric material, comprising:
 - a) suspending a pulverous, polymeric material in a fluid, the polymeric material possessing a softening temperature and a melting temperature,
 - b) pressurizing the fluid to produce a pressurized suspension,
 - c) ejecting the pressurized suspension onto the substrate comprising the fiber based layer to form the coating layer,
 - d) heating the polymeric material, during any one of the steps a)-c), to a temperature above the softening temperature of the polymeric material and below the melting temperature of the polymeric material,wherein the pulverous, polymeric material is suspended in the fluid before pressurizing the fluid and before ejecting the pressurized suspension.
2. (Previously Presented) A method according to claim 1, wherein said heating in step d) is performed during step c).
3. (Previously Presented) A method according to claim 1, wherein said fluid is a gaseous fluid.

4. (Previously Presented) A method according to claim 1, wherein said fluid is a liquid which is evaporated in connection with the heating in step d) during step c), so that the polymeric material is essentially free from the fluid as the polymeric material hits the substrate.

5. (Canceled)

6. (Previously Presented) A method according to claim 1, wherein the suspension is heated before step d).

7. (Previously Presented) A method according to claim 1, wherein the pulverous polymeric material in step a) has a mean particle size of 1-100 μm , the pulverous particles being constituted of pulverous particles formed directly in manufacturing of the polymeric material.

8. (Previously Presented) A method according to claim 1, wherein the surface of the polymeric pulverous particles is affected to counteract agglomeration of the pulverous particles in the suspension.

9. (Currently Amended) A method according to claim 1, wherein the substrate is a substrate for a packaging laminate ~~comprising one or more layers in the group that consists of a fibre based core layer, a polymer core layer, a gas barrier layer, an adhesive layer, a liquid barrier layer and a sealing layer.~~

10. (Previously Presented) A method according to claim 1, wherein the substrate is pretreated in direct connection with step c), for increased adhesion of the polymeric material.

11. (Previously Presented) A method according to claim 1, wherein said coating layer is applied at a thickness of 0.1-5 μm .

12. (Previously Presented) A method according to claim 1, wherein said coating layer is applied on essentially the entire surface of one side of the substrate.

13. (Previously Presented) A method according to claim 1, wherein said coating layer is applied only partially, on chosen parts of the surface of one side of the substrate.

14. (Currently Amended) A device for providing a substrate with a coating layer of a polymeric material, comprising:

mixing equipment, arranged to suspend a pulverous polymeric material in a fluid,

pressurizing equipment, arranged to pressurize said fluid,

at least one nozzle operatively connected to the pressurizing equipment and arranged to eject the suspension of polymeric material in fluid towards the substrate,

first heating equipment arranged to heat the polymeric material upstream of the at least one nozzle;

second heating equipment arranged downstream of the at least one nozzle to heat the suspension of polymeric material ejected from the at least one nozzle before reaching the substrate to a temperature above the softening temperature of the polymeric material and below the melting temperature of the polymeric material,

wherein the mixing equipment is arranged to suspend the pulverous polymeric material in the fluid before the pressurizing equipment pressurizes the fluid and before the at least one nozzle ejects the pressurized suspension.

15. (Canceled)

16. (Previously Presented) A device according to claim 14, comprising flow controlling equipment arranged to control a flow of the suspension in said nozzle.

17. (Previously Presented) A device according to claim 14, comprising means arranged to pretreat the substrate, preferably comprising activation of the surface of the substrate.

18. (Previously Presented) A method according to claim 1, wherein said fluid is one of air and an inert gas.

19. (Previously Presented) A method according to claim 1, wherein the suspension is heated in one of step a) and step b).

20. (Previously Presented) A method according to claim 1, wherein the pulverous polymeric material in step a) has a mean particle size of 1-50 μm and is constituted of pulverous particles formed directly in manufacturing of the polymeric material.

21. (Previously Presented) A method according to claim 1, wherein the pulverous polymeric material in step a) has a mean particle size of 1-25 μm and is constituted of pulverous particles formed directly in manufacturing of the polymeric material.

22. (Previously Presented) A method according to claim 1, further comprising adding an agent to the suspension or treating the pulverous particles to affect the surface of the polymeric pulverous particles in a manner that counteracts agglomeration of the pulverous particles in the suspension.

23. (Previously Presented) A method according to claim 1, wherein said coating layer is applied at a thickness of 0.1-2 μm .

24. (Previously Presented) A method according to claim 1, wherein said coating layer is applied at a thickness of 0.1-1 μm .

25. (Previously Presented) A device according to claim 14, comprising means arranged to pretreat the substrate by activation of the surface of the substrate.

26. (Previously Presented) A method according to claim 1, wherein the coating layer of polymeric material is homogeneous and continuous.

27. (Previously Presented) A method according to claim 1, wherein the fluid is pressurized to a pressure of about 100 bar.

28. (Previously Presented) A method of providing a substrate comprising a fiber based layer with a coating layer of a polymeric material, comprising:

- a) suspending a pulverous, polymeric material in a fluid, the polymeric material possessing a softening temperature and a melting temperature,
- b) pressurizing the fluid to produce a pressurized suspension,
- c) ejecting the pressurized suspension onto the substrate comprising the fiber based layer to form the coating layer,
- d) heating the polymeric material, during any one of the steps a)-c), to a temperature above the softening temperature of the polymeric material and below the melting temperature of the polymeric material.